Index to Volume 48

The index is in two parts: the first deals with articles, and the second with book reviews. The pagination of the issues of this volume is as follows:

Issue	1	2	3	4	5	6
Pages	1-102	103-206	207-310	311-406	407-508	509-612

Articles

Articles are placed in alphabetical order of their authors. Those articles which appeared in a department, such as 'Notes and Discussions', are listed here without special indication.

- 345 Bennett, J. A. Geometry and Surveying in Early-Seventeenth-Century England
- 113 Bret, P. Le Dépôt général de la Guerre et la formation scientifique des ingénieurs-géographes militaires en France (1789–1830)
- 527 CHAYUT, M. J. J. Thomson: The Discovery of the Electron and the Chemists
- 453 DEAN, D. R. John Muir and the Origin of Yosemite Valley
- 39 DEAN, D. R. Robert Mallet and the Founding of Seismology
- 577 DEIMAN, J. C. A Myth Revealed: The Case of the 'Beeldsnyder Achromatic Objective'
- 21 GALDABINI, S., and GIULIANI, G. Magnetic Field Effects and Dualistic Theory of Metallic Conduction in Italy (1911–1926): Cultural Heritage, Creativity, Epistemological Beliefs and National Scientific Community
- 305 GRATTAN-GUINNESS, I. Obituary: Eric Aiton: An Appreciation
- 207 HAYAKAWA, S., and Low, M. F. Science Policy and Politics in Post-war Japan: the Establishment of The KEK High Energy Physics Laboratory
- 583 HILL, R. D. Some Comments on 'Forming New Physics Communities: Australia and Japan, 1914–1950', by R. W. Home and W. Watanabe
- 187 HORMIGÓN, M. History of Science and Technology Today in Spain
- 545 INKSTER, I. Science, Technology and Economic Development—Japanese Historical Experience in Context
- 319 JOHNSTON, S. Mathematical Practitioners and Instruments in Elizabethan England
- 231 LARSON, E. J. Science in the American South Through the Eyes of Four Natural Historians. 1750–1850
- 103 McBryDe, W. A. E. Petroleum Deodorized: Early Canadian History of the 'Doctor Sweetening' Process
 - 1 McConnell, J. H. La Condamine's Scientific Journey down the River Amazon, 1743-1744
- 173 MILLS, A. A. Canada Balsam
- 241 MILLS, E. L. The Oceanography of the Pacific: George F. McEwen, H. U. Sverdrup and the Origin of Physical Oceanography on the West Coast of North America

- 509 Olby, R. Social Imperialism and State Support for Agricultural Research in Edwardian Britain
- 407 OLDROYD, D. R. The Archaean Controversy in Britain: Part I—The Rocks of St David's
- 159 POURCIAU, B. H. On Newton's Proof That Inverse-Square Orbits Must be Conics
- 367 RYAN, W. F. Scientific Instruments in Russia from the Middle Ages to Peter the
- 565 TRESISE, G. 'Chirotherium herculis'-Problems Posed by the First Finds
- 313 TURNER, G. L'E. Introduction: Some Notes on the Development of Surveying and the Instruments Used
- 355 WILLMOTH, F. 'The Genius of all Arts' and the Use of Instruments: Jonas Moore (1617–1679) as a Mathematician, Surveyor, and Astronomer
- 267 WILSON, D. B. P. G. Tait and Edinburgh Natural Philosophy, 1860-1901

Book Reviews

Books are gathered together under the titles of sections which are used in the issues of the journal. Essay reviews commence the list as a group of their own.

Essay Reviews

- 589 CAHAN, D. The Power and the Glory (Crosbie Smith and M. Norton Wise, Energy and Empire. A Biographical Study of Lord Kelvin)
- 385 GREENAWAY, F. The Third President (Silvio A. Bedini, Thomas Jefferson, Statesman of Science)
- 87 OLBY, R. Pan Darwinism (Robert J. Richards, Darwin and the Emergence of Evolutionary Theories of Mind and Behaviour)
- 69 SIMCOCK, A. V. 195 Years of Photochemical Imaging
- 289 WARWICK, A. A Very Practical Science (Peter Rowlands, Oliver Lodge and the Liverpool Physical Society)

Congresses and Symposia

295 VISSER, R. P. W., Bos, H. J. M., PALM, L. C., and SNELDERS, H. A. M. (editors) New Trends in the History of Science (M. Worboys)

General Histories of Science

- 488 CHALMERS, A. Science and its Fabrication (J. C. Forge)
- 487 INGRAO, B., and ISRAEL, G. The Invisible Hand: Economic Equilibrium in the History of Science (T. M. Porter)

Editions and Selections

- 191 BACON, F. Teoría del cielo. Translated from the Latin by A. Elena and M. J. Pascual (V. N. Brotons)
- 91 EULER, L. Opera omnia, series 4A, volume 6. Commercium epistolicum. Commercium cum P.-L. M. de Maupertuis et Frédéric II. Edited by P. Costabel, E. Winter, A. T. Grigorijan and A. P. Juškevič with the collaboration of E. A. Fellmann (H. Pulte)
- 391 FINOCCHIARO, M. A. The Galileo Affair. A Documentary History (J. A. Bennett)

- 191 The Preliminary Manuscripts for Isaac Newton's 1687 'Principia', 1684–1686 (D. B. Meli)
- 597 WILSON, D. B. (editor) The Correspondence Between Sir George Gabriel Stokes and Sir William Thomson, Baron Kelvin of Largs (P. M. Harman)

Essays and Biographies

- 601 HUNTER, M., and SCHAFFER, S. Robert Hooke: New Studies (A. Chapman)
- 598 LEDERBERG, J. (compiler) The Excitement and Fascination of Science: Reflections by Eminent Scientists (D. J. Boullin)
- 602 O'CONNOR, W. J. British Physiologists 1885-1914: A Biographical Dictionary (C. Lawrence)
- 489 STAFFORD, R. A. Scientist of Empire: Sir Roderick Murchison, Scientific Exploration and Victorian Imperialism (G. L. Herries Davies)
- 600 STERNBERG, C. H. The Life of a Fossil Hunter (W. A. S. Sarjeant)
- 599 WILLIAMS, T. I. Robert Robinson, Chemist Extraordinary (R. G. W. Anderson)

Historiography of Science

- 491 HULL, D. L. Science as a Process. An Evolutionary Account of the Social and Conceptional Development of Science (G. Jones)
- 491 HULL, D. L. The Metaphysics of Evolution (G. Jones)

Philosophical Aspects of Science

- 492 DILWORTH, C. Laws, Theories and the Principles of Science (R. C. Jennings)
- 94 EARMAN, J. World Enough and Space-Time (G. J. Whitrow)
- 391 LE GRAND, H. E. (editor) Experimental Inquiries: Historical, Philosophical and Social Studies of Experimentation in Science (D. L. Weaire)
- 95 WILSON, C. Leibniz's Metaphysics: A Historical and Comparative Study (E. J. Aiton)

Social Aspects of Science

- 493 KUMAR, D. (editor) Science and Empire, Essays in Indian Context (I. Inkster)
- 494 MOLLAN, C., DAVIS, W., and FINUCANE, B. (editors) More People and Places in Irish Science and Technology (J. A. Bennett)
- 296 PYENSON, L. Empire of Reason: Exact Sciences in Indonesia 1840–1940 (Brill's Studies in Intellectual History, 13) (C. S. Kessler)

Education and Institutions

- BIANCHI, A. T. J. et al. (editors) Van Vonk Tot Vlam, 100 Jaar Natuurwetenschap in Nederland. Het Nederlands Natuur- en Geneeskundig Congress 1887–1987 (W. D. Hackmann)
- 96 CAHAN, D. An Institute for an Empire. The Physikalisch-Technische Reichsanstalt 1871–1918 (P. Lundgreen)
- 98 JAMES, F. A. J. L. (editor) The Development of the Laboratory (R. G. W. Anderson)
- 298 TURNER, G. L'E. The Great Age of the Microscope: The Collection of the Royal Microscopical Society through 150 Years (D. J. Bryden)

Libraries and Museums

603 HAGELIN, O. (compiler) Rare and Important Medical Books in the Library of the Swedish Society of Medicine (C. Lawrence)

Bibliography and Reference

- 495 BATORI, A., and BEVILACQUA, F. Clavis Scientiarum Catalogo del Fondo Storico di Fisica della Biblioteca Universitaria e della Biblioteca A. Volta di Pavia (R. W. Home)
- 495 BATORI, A., BEVILACQUA, F., and ROTOLO, L. Inventario degli Atti Accademici della Biblioteca Universitaria di Pavia (R. W. Home)
- 193 KRIVATSY, P. A Catalogue of Seventeenth-Century Printed Books in the National Library of Medicine (C. Webster)
- 603 LeFanu, W. Nehemiah Grew M.D., F.R.S. A Study and Bibliography of his Writings (C. Webster)
- 300 MORRIS, P. J. T., and RUSSELL, C. A. Archives of the British Chemical Industry, 1750–1914: A Handlist (W. A. Campbell)
- 496 PETERS, H. J. M. W. The Crone Library: Books on the Art of Navigation left by Dr Ernst Crone to the Scheepvaart Museum in 1975 and Books on the same Subject acquired by the Museum previously (G. L'E. Turner)
 - 99 Tractrix: Yearbook for the History of Science, Medicine, Technology and Mathematics. Volume 1 (R. W. Home)
- 392 VERVLIET, H. D. L. (editor) ABHB: Annual Bibliography of the History of the Printed Book and Libraries (Volume 18: Publications of 1987 and additions from the preceding years) (G. L'E. Turner)
- 496 WEAST, R. C., and LIDE, D. R. (editors) CRC Handbook of Chemistry and Physics: A Ready-Reference Book of Chemical And Physical Data, 70th edn. (G. L'E. Turner)

Maps and Charts

300 HARLEY, J. B., and WOODWARD, D. (editors) The History of Cartography, Volume I, Cartography in Prehistoric, Ancient, and Medieval Europe and the Mediterranean (D. N. Livingstone)

Geography and Navigation

- 193 DAVIDS, C. A. Zeewezen en Wetenschap: De wetenschap en de ontwikkeling van de navigatietechniek in Nederland tussen 1585 en 1815 (G. L'E. Turner)
- 497 Howse, D. (editor) Background to Discovery: Pacific Exploration from Dampier to Cook (A. McConnell)
- 498 RICE, A. L. British Oceanographic Vessels 1800–1950 (A. McConnell)
- 100 Volney, C. F. Oeuvres, edited by A. and H. Deneys (G. L. Herries Davies)

Medieval Science

- 392 GOODICH, M. E. From Birth to Old Age. The Human Life Cycle in Medieval Thought 1250-1350 (A. Wear)
- 195 SABRA, A. I. (translator and editor) The Optics of Ibn al-Haytham, Books I-III, On Direct Vision (D. C. Lindberg)

Renaissance and Reformation

- 393 GOODRICK-CLARKE, N. (editor) Paracelsus, Essential Readings (A. Clericuzio)
- 196 Kemp, M. The Science of Art. Optical Themes in Western Art from Brunelleschi to Seurat (T. Frangenberg)

Technology and Engineering

- 499 AGRICOLA, G. Bermannus (Le Mineur): Un dialogue sur les mines (G. Hollister-Short)
- 302 BEESON, C. F. C. Clockmaking in Oxfordshire 1400-1850 (B. Loomes)
- 392 Burns, R. (editor) Radar Development to 1945 (D. Howse)
- 395 Musson, A. E., and Robinson, E. Science and Technology in the Industrial Revolution. With a Foreword to the second printing by Margaret C. Jacob (G. L'E. Turner)

Instruments and Measurement

- 500 CARPINE, C. Catalogue des Appareils d'Océanographie en Collection au Musée Océanographique de Monaco. 1. Photometres; 2. Mesureurs de Courant (J. E. Insley)
- 604 CROMPTON, D., HENRY, D., and HERBERT, S. (editors) Magic Images: The Art of Hand-Painted and Photographic Lantern Slides (A. Simcock)
- 298 TURNER, G. L'E. The Great Age of the Microscope: The Collection of the Royal Microscopical Society through 150 Years (D. J. Bryden)

Mathematics and Logic

- 605 FOURIER, J.-B. J. Leçons d'un Cours d'Analyse Rédigées par C. L. Donop, Ms. Vitt. Em. 1509 (I. Grattan-Guinness)
- 198 Hess, H.-J., and Nagel, F. (editors) Der Ausbau des Calculus durch Leibniz und die Brüder Bernoulli (I. Grattan-Guinness)
- 198 Hughes, B. B. Robert of Chester's Latin Translation of al-Khwārizmī's Al-Jabr: A New Critical Edition (A. G. Molland)

Natural Philosophy

395 GOZZA, P. (editor) La Musica nella Rivoluzione Scientifica del Seicento. Introduction by the editor (H. Floris Cohen)

Physical Sciences

- 100 GAVROGLU, K., and GOUDAROULIS, Y. Methodological Aspects of the Development of Low Temperature Physics 1881–1956: Concepts out of Context(s) (A. C. van Helden)
- 101 POLKINGHORNE, J. Rochester Roundabout: The Story of High Energy Physics (M. L. G. Redhead)
- 397 SALAM, A. Unification of Fundamental Forces (P. Rowlands)

Astronomy and Cosmology

605 Bennett, J. A. Church, State and Astronomy in Ireland: 200 years of Armagh Observatory (D. W. Hughes)

Chemistry

- 400 GUERLAC, H. Lavoisier—The Crucial Year. The Background and Origin of his First Experiments on Combustion in 1772 (W. A. Smeaton)
- 303 HOLMES, F. L. Eighteenth-Century Chemistry as an Investigative Enterprise (B. W. Keyser)
- 398 PEREIRA, M. The Alchemical Corpus Attributed to Raymond Lull (L. Garcia-Ballester)

Earth Sciences

- 401 ALBRITTON, C. C., Jr. Catastrophic Episodes in Earth History (D. Oldroyd)
- 501 CARDON, D. Guide des Teintures Naturelles (J. F. M. and M. J. Cannon)
- 401 Huggett, R. Cataclysms and Earth History: The Development of Diluvialism (D. Oldroyd)
- 502 OLDROYD, D. R. The Highlands Controversy: Constructing Geological Knowledge through Fieldwork in Nineteenth-Century Britain (J. Jones)
- 199 SCHRODER, W. (editor) Advances in Geosciences. Selected papers from the symposia of the interdivisional commission on history of IAGA during the IAGA Assembly, held in Exeter, 1989 (A. McConnell)

Natural History

201 WHITHEAD, P. J. P., and BOESEMAN, M. A Portrait of Dutch 17th century Brazil. Animals, Plants and People by the Artists of Johan Maurits of Nassau (J. M. Massing)

Life Sciences

- 403 BOWLER, P. J. The Non-Darwinian Revolution: Reinterpreting a Historical Myth and Evolution: The History of an Idea (J. A. Secord)
- 304 DESMOND, A. The Politics of Evolution: Morphology, Medicine, and Reform in Radical London (C. Lawrence)
- 504 ELLEGARD, A. Darwin and the General Reader: The Reception of Darwin's Theory of Evolution in the British Periodical Press, 1859–1872 (E. J. Browne)
- 202 RAINGER, R. R., BENSON, K. R., and MAIENSCHEIN, J. (editors) The American Development of Biology (R. Olby)
- 204 TOADES, D. P. Darwin without Malthus: The Struggle for Existence in Russian Evolutionary Thought (N. Roll-Hansen)

Medicine and Health

- 404 BOVET, D. Une Chimie qui Guérit: Histoire de la Découverte des Sulfamides (G. C. Bowker)
- 205 FRENCH, R., and WEAR, A. (editors) The Medical Revolution of the Seventeenth Century (C. Webster)

Anthropology

405 SPENCER, F. Piltdown: A Scientific Forgery (P. J. Bowler)

Psychology

505 Hirst, W. (editor) The Making of Cognitive Science: Essays in Honor of George A. Miller (N. J. T. Thomas)

